

Welding consumables - Solid wire electrodes, solid strip electrodes, solid wires and solid rods for fusion welding of nickel and nickel alloys - Classification (ISO 18274:2010)

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

Käesolev Eesti standard EVS-EN ISO 18274:2011 sisaldab Euroopa standardi EN ISO 18274:2010 ingliskeelset teksti.

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English Version

Welding consumables - Solid wire electrodes, solid strip electrodes, solid wires and solid rods for fusion welding of nickel and nickel alloys - Classification (ISO 18274:2010)

Produits consommables pour le soudage - Fils-électrodes pleins, feuillards pleins, fils pleins et baguettes pleines pour le soudage par fusion du nickel et des alliages de nickel - Classification (ISO 18274:2010)

Schweißzusätze - Draht- und Bandedelektroden, Massivdrähte und -stäbe zum Schmelzschiessen von Nickel und Nickellegierungen - Einteilung (ISO 18274:2010)

This European Standard was approved by CEN on 14 December 2010.

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Foreword

This document (EN ISO 18274:2010) has been prepared by Technical Committee ISO/TC 44 "Welding and allied processes" in collaboration with Technical Committee CEN/TC 121 "Welding" the secretariat of which is held by DIN.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by June 2011, and conflicting national standards shall be withdrawn at the latest by June 2011.

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Endorsement notice

The text of ISO 18274:2010 has been approved by CEN as a EN ISO 18274:2010 without any modification.

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Introduction

For nickel welding consumables, there is no unique relationship between the product form (solid wire electrode, solid strip electrode, solid wire or solid rod) and the welding process used (e.g. gas shielded metal arc welding, gas tungsten arc welding, plasma arc welding, submerged arc welding, strip overlay welding, laser welding or other welding processes). For this reason, the solid wire electrode, solid strip electrode, solid wire or solid rod may be classified on the basis of any of the above product forms and can be used as appropriate, for more than one of the above processes.

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Welding consumables — Solid wire electrodes, solid strip electrodes, solid wires and solid rods for fusion welding of nickel and nickel alloys — Classification

1 Scope

This International Standard specifies requirements for classification of solid wire electrodes, solid strip electrodes, solid wires and solid rods for fusion welding of nickel and nickel alloys. The classification of the solid wire electrodes, solid strip electrodes, solid wires and solid rods is based on their chemical composition.

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 544, *Welding consumables — Technical delivery conditions for filler materials and fluxes — Type of product, dimensions, tolerances and markings*

ISO 14344, *Welding consumables — Procurement of filler materials and fluxes*

ISO 80000-1:2009, *Quantities and units — Part 1: General*

3 Classification

The classification is divided into two parts:

- a) the first part indicates the product form, being solid wire electrode, solid strip electrode, solid wire or solid rod, see 4.1;
- b) the second part gives a numerical symbol indicating the chemical composition of the solid wire electrode, solid strip electrode, solid wire or solid rod, see Table 1.

4 Symbols and requirements

4.1 Symbols for the product form

The symbol for the solid wire electrode, solid wire or solid rod shall be “S”. The symbol for the solid strip electrode shall be “B”.

NOTE One product form can be used for more than one welding process.